



Product Overview

PM120GSMI V1 is a Management ring-network industrial switch independently developed by UNIPOE, with 8*10/100/1000Mbps adaptive RJ45 ports and 12 independent Gigabit SFP fiber module expansion slots. Support static routing functions, provide perfect security, QoS, and plenty of VLAN function has ring network function, can form a ring network, switch between by hand in hand form a ring network topology, the redundancy, high reliability characteristics can make in a ring online link disconnected all the way, will not affect the forwarding of data on the network.

The device adopts storage and forwarding, no fan, low power consumption

design, has the advantages of easy to use, compact and beautiful, simple installation. The product is designed to meet Ethernet standards, with lightning protection, static protection mechanism, operating temperature range of -40°C to 75°C, stable performance, safety and reliability, can be widely used in intelligent transportation, telecommunications,

Product Features

Supports IEEE802.3u, IEEE802.3ab, IEEE802.3z, and IEEE802.3x standards;

security, financial securities, customs and other broadband data transmission fields.

- RJ45 Supports automatic port flip (Auto MDI/MDIX);
- Supports IEEE802.3x full-duplex flow control and Backpressure half-duplex flow control;
- Panel indicators monitor working status and assist in fault analysis;
- High energy aluminum alloy roof heat conduction groove design;
- Supports one-click ring network and one-click storm suppression, featuring redundancy and high reliability;
- High reliability design, supporting traditional STP/RSTP layer 2 link protection technology;
- Supports manual aggregation and dynamic aggregation, which increases link bandwidth, improves link reliability,
 and implements load balancing and link backup;
- Flexible and convenient management and maintenance Supports various management modes, such as Console,
 Telnet, and SSH;
- Supports WEB management, which is simple and efficient, and facilitates installation and debugging by engineering and maintenance personnel. Supports file upload and download management through TFTP.

Product Specifications

Hardware Specification

Model	PM120GSMI V1		
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x, IEEE802.1X, IEEE802.1q, IEEE802.1p, IEEE802.1d, IEEE802.1w, IEEE802.3ad		
Interface	8*10/100/1000Mbps RJ45 Ports 12*1000Mbps SFP Slots 1 Console Port		
Indicator	PWR, LNK/ACT, SYS		
Network Media	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5, 5e cable (≤100m) 1000BASE-T: UTP category 5e, 5 cable (≤100m) 1000BASE-X: MMF, SMF		
MAC Address Table	8K, Auto-learning, Auto-aging		
Jumbo Frame	9216Byte		
Packet Buffer	4.1M bit		
Transfer Mode	Store-and-forward		
Packet Forward Speed	29.76Mpps		
Switching Capacity	40Gbps		
Dimensions(L*W*H)	145*109*62mm		
Fan Quantity	Fanless		
Green Energy Saving	IEEE 802.3az		
Input Power Supply	DC:12-55V		
Operating Temperature	-40°C ~ 75 °C		
Storage Temperature	-40 °C ~ 80 °C		
Operating Humidity	10% ~ 90% non-condensing		
Storage Humidity	5% ~ 90% non-condensing		
Surge Protection	Differential mode ±2KV Common mode ±6KV		
MTBF	>100000 hour		
Electrostatic Standard	Contact ±6KV, Air ±8KV		

Software Specification

		MAC Address Size
	MAC Address Table	
		MAC Aging Time MAC Filter
		MAC Notification
		Console/Telnet/SSH
		Http/Https, SSL/TLS
		FTP/TFTP
		•
	Basic Management	Syslog SNIAD (v.1 (v.2 o./ v.2) SNIAD Trans
		SNMP (v1/v2c/v3), SNMP Trap SNTP/NTP
		CPU protect
		Software/Hardware watchdog
		Firmware Upgrade/Backup
		Ping/Traceroute
		Bandwidth Control
		Flow Control
		EEE
		MTU (502.15-1)
		CFM (802.1ag)
	Port Config	EFM OAM (802.3ah)
	_	DDM
		Storm Control
		Port Isolation
		Port Security
		Virtual Cable Test
		ULDP/Cisco UDLD
L2 Features	Discovery	LLDP (802.1ab) LLDP-MED
LZ reatures		Static
	(1 in 1, 0 nove notion)	LACP (802.3ad) Load Balance (src-mac/dst-mac/src-ip/dst-ip)
	(Link Aggregation)	
		Max groups and ports per group VLAN (802.1Q 4K)
	VLAN	Access/Trunk/Hybrid
		Private VLAN
		VLAN Filter
		MAC-based VLAN
		Protocol-based VLAN
		IP Subnet-based VLAN
		Voice VLAN
		GVRP/GMRP
		QinQ/Selective-QinQ/Flexible QinQ
		VLAN Translation/N:1 VLAN Translation
		Guest VLAN
	Network Loop Detection Spanning Tree	Loopback Detection
		ERPS
		STP/RSTP/MSTP
		MSTP Support 64 instance
		BPDU Guard/Root Guard/BPDU Tunnel
	ARP	Static ARP
		ARP Scanning Prevention
		ARP Spoofing Prevention
		ANT Spooning i revention

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	I	Uni
		ARP Guard
		Gratuitous ARP
		Dynamic ARP Inspection
		ARP Quantity Control
		Anti ICMP Attack
	ICMP	ICMP Rate Limit
		ICMP Unreachable Drop
	IP Forward	Static Route
	IF TOIWalu	Route Aggregation
	Control Multicast	DCSCM
IPv4 Related Function	Multicast VLAN	Multicast VLAN
	IGMP	IGMP SNOOPING V1/V2/V3
		Fast Leave
		IGMP Proxy
		DHCP Server
		DHCP Client/BOOTP
	DHCP	DHCP Relay
		DHCP Snooping
		DHCP Option 82/43/60/61/67
		DHCPv6 Server
		DHCPv6 Relay
	DHCPv6	DHCPv6 Snooping
		IPv6 SAVI
		Security RA
	IPv6 Unicast Routing	Static Route
	IPv6 Multicast Routing	MLD v1/V2 Snooping
	IPv6 Features	SNMP over IPv6 Support
IPv6 Related Function		HTTP over IPv6 Support
		SSH over IPv6 Support
		DNS over IPv6 Support
		IPv6 ping/traceroute Support
		IPv6 Telnet Support
	II vo i cutures	IPv6 Radius+ Support
		IPv6 Tacacs+ Support
		IPv6 SNTP/NTP Support
		IPv6 FTP/TFTP Support
		IPv6 IPSec Support
		IPv6 ACL
	Basic	Trust COS/DSCP
	Basic	Trust Port
	Scheduling	SP
		WRR
		WDRR
	Policy Map Stream	Based on VLAN
		Based on COS/DSCP
		Aggregate Policy Map
		Ingress Policy Map
QoS(Quality Of Service)	Policing	CAR Stream Shaping(leak algorithm)
		Ingress Policing
	Rewrite	COS/802.1p Priority
		IP Precedence
		IPv4 DSCP/IPv6 DSCP
		drop-precedence
		Internal-priority
		Ingress/Egress Rewrite



I		DCCD to DD consider
		DSCP to DP mapping
		DSCP to Queue mapping
		COS to DP mapping
		COS to Queue mapping
		SIP/DIP
	IP-ACL	IP Protocol
	IF-ACL	IP Priority(DSCP,TOS, Precedence)
		TCP,UDP src,dst Port
	MAC-ACL	SRC/DST MAC
ACL		VLAN
		COS
		Tag/Untag
	IP-MAC ACL	MAC-ACL and IP-ACL
	User-defined ACL	Based on user defined profile
		Based on time period ACL
	ACL Features	ACL on VLAN
		Based on ACL Stream
		Port Based Authentication
	000.4	Support EAPoR
	802.1x	MAC based Authentication
		Guest VLAN
	MAR	Based on Port Authentication
	MAB	Based on MAC Authentication
	MAC Address Count	Based on Port
	Limit	Based on VLAN
	IP Address Count Limit	Based on Port
Security		Based on VLAN
	Access Management	Based on source mac and IP address
	Deny DoS Attack	TCP Flag
		TCP Flagment
		IP Segment
		ICMP
	TACACS+	Standard Support
	Radius	Standard Support
		Client, Support MD5
	SSL	Openssl 1.1.0
	MRPP	Compatiable ERRP
Redundancy Related	ULPP	Uplink Protection Protocol
Function		Smart Link/Monitor Link
	ULSM	Uplink State Monitor
Mirror	Mirror	Support one to one, multi to one
		Port based mirror, support ingress, egress, and both
		CPU based mirror
		Flow based mirror
		RSPAN

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Ordering information

Model	Product Information	
PM120GSMI V1	8-Port Gigabit +12G SFP Industrial Fast Ring Managed Switch	